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ART 34 AMDT

Claims

1. Branching device (1, 25) for at least one electric line, which exhibits one or more wires (50), with branching contacts and with a housing (2), in which at least one electrically conducting wire terminal (11) is accommodated in a holder (10, 26), **characterised in that** contact lips (44, 46) with cutting edges (48) for cutting through the insulation (52) of the wire (50) are provided on the wire terminals 11, in that the wire terminals (11) represent the branching contact and in that a through-channel (47) for the uninterrupted passage of a wire (50) is provided in each wire terminal (11).
2. ~~Branching device according to Claim 1,~~ **characterised in that** the through-channel (47) runs in a straight line through the wire terminal (11).
3. Branching device according to at least one of the previous claims, **characterised in that** the wire terminals (11) are accommodated releasably in the holder (10, 26) in the housing (2).
4. Branching device according to at least one of the previous claims, **characterised in that** a number of wire terminals (11) corresponding to at least the number of wires (50) to be branched is provided.
5. Branching device according to at least one of the previous claims, **characterised in that** at least one connecting lug (15) is provided on one wire terminal (11).
6. Branching device according to at least one of the previous claims, **characterised in that** the contact lips (44, 46) are provided in pairs in each case on a wire terminal (11).
7. Branching device according to at least Claim 6, **characterised in that** the spacing between two paired contact lips (44, 46) is not greater than the diameter of a wire (50).
8. Branching device according to at least one of the Claims 6 or 7, **characterised in that** the edges (48) of paired contact lips (44, 46) facing the through-channel (47) run parallel to one another at least in sections.

9. Branching device according to at least one of the Claims 6 to 8, **characterised in that** two paired contact lips (44, 46) together form an entry section (49) for the wire (50), in which the spacing between the contact lips (44, 46) widens towards an entry side of the through-channel (47).
10. Branching device according to at least one of the previous claims, **characterised in that** at least one of the contact lips (44, 46) is flexible in a direction pointing away from the through-channel (47).
11. Branching device according to at least one of the previous claims, **characterised in that** a notch (14) is provided between the wire terminal (11) and its holder (10, 26).
12. Branching device according to at least one of the previous claims, **characterised in that** the holder (10, 26) of the wire terminals (11) is attached releasably to the housing (2).
13. Branching device according to at least one of the previous claims, **characterised in that** a common holder (26) for all wire terminals (11) is provided.
14. Branching device according to at least one of the previous claims, **characterised in that** at least one holding-down clamp (17, 29) is provided for the wires (50), which holds the wires (50) in the through-channels (47) of the wire terminals (11).
15. Branching device according to at least Claim 14, **characterised in that** at least one common holding-down clamp (17, 29) is provided for all wires (50).
16. Branching device according to at least one of the Claims 14 or 15, **characterised in that** the holding-down clamp(s) (17, 29) represent a closure of the openings formed between the contact lips (44, 46).
17. Branching device according to at least one of the Claims 14 to 16, **characterised in that** the holding-down clamp(s) (17, 29) can be latched to the holder (10, 26) of the wire terminals (11).
18. Branching device according to at least one of the previous claims, **characterised in that** the holding-down clamp(s) (17, 29) can be latched to the housing (2).

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19. Branching device according to at least one of the previous claims, **characterised in that** the holding-down clamp (17, 29) exhibits a transverse plate (18, 33) which closes off the through-channels (47) and exhibits openings through which the connecting lugs (15) of the wire terminals (11) protrude.
 20. Branching device according to at least one of the previous claims, **characterised in that** seals (21) are provided on the housing (2) at the outlets (9) for the line.
 21. Branching device according to at least Claim 20, **characterised in that** the seals are formed as sealing rings (21) with a side cut (22) for inserting the line.
 22. Branching device according to at least one of the previous claims, **characterised in that** the housing (2) is assembled from a housing base section (3) and a housing upper section (4).
 23. Branching device according to at least Claim 22, **characterised in that** the housing base section (3) and the housing upper section (4) can be screwed together.
 24. Branching device according to at least one of the previous claims, **characterised in that** strain relief (36, 38) is provided on the housing (2) at the outlets (9) for the lines.